	Application No.	Applicant(s)
Notice of Allowability	09/575,161	LAPSTUN ET AL.
	Examiner	Art Unit	
	Abbas I Abdulselam	2674	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to *08/17/04.*

2. ☒ The allowed claim(s) is/are *1-3, 5-55, 57-111 and 113-131 (renumbered as claims 1-128).*

3. ☒ The drawings filed on *23 May 2000* are accepted by the Examiner.

4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
    a) ☒ All   b) ☐ Some*   c) ☐ None of the:
       1. ☒ Certified copies of the priority documents have been received.
       2. ☐ Certified copies of the priority documents have been received in Application No. _____ .
       3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the
          International Bureau (PCT Rule 17.2(a)).
    * Certified copies not received: _____ .

5. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.
    (a) ☐ The translation of the foreign language provisional application has been received.

6. ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. **THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

7. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

8. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
    (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
       1) ☐ hereto or 2) ☐ to Paper No. _____.
    (b) ☐ including changes required by the proposed drawing correction filed _____, which has been approved by the Examiner.
    (c) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No. _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the margin according to 37 CFR 1.121(d).

9. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1 ☐ Notice of References Cited (PTO-892)

2 ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)

3 ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No. _____

4 ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material

5 ☐ Notice of Informal Patent Application (PTO-152)

6 ☐ Interview Summary (PTO-413), Paper No._____ .

7 ☐ Examiner's Amendment/Comment

8 ☒ Examiner's Statement of Reasons for Allowance

9 ☐ Other .

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PRIMARY EXAMINER

DETAILED ACTION

Allowable Subject Matter

1.   The following is an examiner's statement of reasons for allowance:

Ackley (USPN 6152370) teaches a data collection symbology reader (50) including a

light source (52), sensor (54), processor/programmed computer (60), memory (57),

receiver/converter (50) and a bar code reader symbol (53) such that the reader (50) is designed to

read and decode data collection symbols formed as relief patterns on surfaces.

Teufel et al. (USPN 6243503) teaches a motion detector unit (202) for recording the

given position of the data acquisition device (200) relative to the image plane (20).

Ito et al. (USPN 5612720) teaches a coordinate indicating device enabling to output the

device identifier stored in itself as illustrated using a pen identifier (116) to the electric pen (101)

the can be stored in a ROM (107).

Regarding claim 1, none of the cited prior art teaches or suggests1a method of enabling

user interaction with computer software via an interface surface containing information relating

to at least one interactive element and to the computer software and having disposed therein or

thereon coded data indicative of an identity of the interface surface and of a plurality of reference

points of the surface; a sensing device which: contains identifying data indicative of an identity

of the user; and, when placed in an operative position relative to the interface surface, senses at

least some of the coded data and generates indicating data, indicative of the identity of the

interface surface and of a position of the sensing device relative to the interface surface, using at

least some of the sensed coded data; and a computer system running the computer software, the

method including the steps of, in the computer system: (a) receiving the identifying data from the

sensing device; (b) receiving the indicating data from the sensing device; (c) identifying the at

least one interactive element from the indicating data; (d) identifying user data from the

identifying data; and (e) operating the computer software at least partly in reliance on the user

data, and in accordance with instructions associated with the at least one interactive element.

Regarding claim 2, none of the cited references teaches or suggests method of enabling

user interaction with computer software running in a computer system, the method including the

steps of providing an interface surface containing-- information relating to at least one interactive

element and to the computer software, and having disposed therein or thereon coded data

indicative of identity of the interface surface and of a plurality of reference points of the interface

surface; and in the computer system: (a) receiving identifying data from a sensing device,

wherein the Sensing device contains the identifying data and the identifying data is indicative of

an identity of the user; (b) receiving indicating data from the sensing device, wherein the sensing

device, when placed in an operative position relative to the interface surface, senses at least some

of the coded data and generates the indicating data using at least some of the sensed coded data,

the indicating data being indicative of the identity of the interface surface and of a position of the

sensing device relative to the interface surface; (c) identifying the at least one interactive

element from the indicating data; (d) identifying user data from the identifying data; and (e)

operating the computer software at least partly in reliance on the user data, and in accordance

with instructions associated with the at least one interactive element.

Regarding claim 53 (renumbered as claim 54), none of the cited references teaches or suggests a system for enabling user interaction with computer software via: an interface surface containing information relating to at least one interactive element and to the computer software and having disposed therein or thereon coded data indicative of an identity of the interface surface and of a plurality of reference points of the interface surface; at least a sensing device which: contains identifying data indicative of an identity of the user; and, when placed in an operative position relative to the interface surface, senses at least some of the coded data and generates indicating data, indicative of the identity of the interface surface and of a position of the sensing device relative to the interface, using at least some of the sensed coded data; and a computer system running the computer software; the system being configured to, in the computer system: (a) receive the identifying data from the sensing device; (b) receive the indicating data from the sensing device; (c) identify the at least one interactive element from the indicating data; (d) identify user data from the identifying data; and(e) operate the computer software at least partly in reliance on the user data, and in accordance with instructions associated with the at least one interactive element.

Regarding claim 54 (renumbered as claim 55), none of the prior art teaches or suggests a system for enabling user interaction with computer software, the system including: an interface surface containing information relating to at least one interactive element and to the computer software having disposed therein or thereon coded data indicative of an identity of the interface surface and of a plurality of reference points of the interface surface; a computer system running the computer software; the system being configured to, in the computer system:(a) receive

identifying data from a sensing device, the identifying data being: indicative of an identity of the user; and contained in the sensing device; (b) receive indicating data from the sensing device, the indicating data being indicative of the identity of the interface surface and wherein, when placed in an operative position relative to the interface surface, the sensing device senses at least some of the coded data and generates the indicating data using at least some of the sensed coded data; (c) identify the at least one interactive element from the indicating data; (d) identify user data from the identifying data; and (e) operate the computer software at least partly in reliance on the user data, and in accordance with instructions associated with the at least one interactive element.

Regarding claim 109, none of the prior art cited teaches or suggests a method of enabling user interaction with computer software via an interface surface containing information relating to at least one interactive element and to the computer software and having disposed therein or thereon coded data indicative of an identity of the interface surface and of a plurality of reference points of the interface surface; a sensing device which: contains identifying data indicative of an identity of the user; and, when placed in an operative position relative to the interface surface, generates indicating data based at least partially on sensing at least some of the coded data, the indicating data being indicative of the identity of the interface surface; and a computer system running the interface surface; the method including the steps of, in the computer system: (a) receiving the identifying data from the sensing device; (b) receiving the indicating data from the sensing device; (c) identifying the at least one interactive element from the indicating data; (d) identifying user data from the identifying data; and (e) operating the computer software at least

partly in reliance on the user data, and in accordance with instructions associated with the at least

one interactive element.

Regarding claim 110, none of the prior at teaches or suggests a method of enabling user

interaction with computer software running in a computer system, the method including the steps

of providing an interface surface containing: information relating to at least one interactive

element and to the computer softwarc; and having disposed therein or thereon coded data

indicative of an identity of the interface surface and of a plurality of reference points of the

interface surface; and in the computer system: (a) receiving identifying data from a sensing

device, wherein the sensing device contains the identifying data and the identifying data is

indicative of an identity of the user; (b) receiving the indicating data from the sensing device,

wherein the sensing device, when placed in an operative position relative to the interface surface,

generates the indicating data based at least partially on sensing at least some of the coded data,

the indicating data being indicative of the at least one identity of the interface surface and of a

position of the sensing device relative to the interface surface; (c) identifying the at least one

interactive element from the indicating data; (d) identifying user data from the identifying data;

and (e) operating the computer software at least partly in reliance on the user data, and in

accordance with instructions associated with the at least one interactive element.

Any comments considered necessary by applicant must be submitted no later than the

payment of the issue fee and, to avoid processing delays, should preferably accompany the issue

fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for

Allowance."

2.   Any inquiry concerning this communication or earlier communication from the examiner

should be directed to **Abbas Abdulselam** whose telephone number is **(703) 305-8591.** The

examiner can normally be reached on Monday through Friday (9:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, **Richard Hjerpe**, can be reached at **(703) 305-4709.**

Any response to this action should be mailed to:

Commissioner of patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314

Hand delivered responses should be brought to Crystal Park II, Crystal Drive, Arlington,
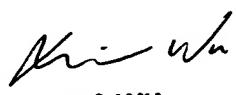
VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding

should be directed to the Technology center 2600 customer Service office whose telephone

number is (703) 306-0377.

Abbas Abdulselam

Examiner

Art Unit 2674

November 3, 2004

**XIAO WU
PRIMARY EXAMINER**